

Appl. No. 10/780,053
Examiner: KLIMOWICZ, WILLIAM, Art Unit 2627
In response to the Office Action dated May 2, 2006

Date: July 31, 2006
Attorney Docket No. 10113771

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): An optical disc drive, comprising:

a main body ~~having a first center of gravity;~~

a motor disposed on the main body, wherein the combined structure of the main body and the motor has a first center of gravity;

a vibration absorber, disposed on the main body, ~~having a second center of gravity;~~ and

a balance plate disposed on the vibration absorber such that the combined structure of the vibration absorber and balance plate has a second center of gravity, wherein the second center of gravity is closer to the first center of gravity than the center of gravity of the vibration absorber taken alone, ~~whereby the second center of gravity of the vibration absorber is substantially close to the first center of gravity of the main body.~~

Claim 2 (Original): The optical disc drive as claimed in claim 1, wherein the vibration absorber is a frame having a first side adjacent to the motor, with the balance plate disposed on the first side.

Claim 3 (Currently amended): The optical disc drive as claimed in claim ~~[[1]]~~ 2, wherein the vibration absorber further comprises:

a plurality of screws for fixing the vibration absorber to the main body; and

a plurality of resilient members disposed between the plurality of screws and the main body.

Claim 4 (Currently amended): The optical disc drive as claimed in claim 3, wherein the screws ~~plurality of screws is screwed more tightly when~~ disposed closer to the first side are screwed more tightly relative to the screws disposed farther from the first side.

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Claim 5 (Currently amended): The optical disc drive as claimed in claim 3, wherein the resilient members ~~coefficients of elasticity of the plurality of resilient members increase when the plurality of resilient members is disposed closer to the first side~~ have a higher coefficient of elasticity relative to the resilient members disposed farther from the first side.

Claim 6 (Original): The optical disc drive as claimed in claim 3, wherein the resilient members are springs.

Claim 7 (Original): The optical disc drive as claimed in claim 3, wherein the resilient members are rubber pads.

Claim 8 (New): The optical disc drive as claimed in claim 1, wherein the motor is disposed on a first lateral side of the main body.

Claim 9 (New): The optical disc drive as claimed in claim 8, wherein the balance plate is disposed on a first lateral side of the vibration absorber corresponding to the first lateral side of the main body.

Claim 10 (New): The optical disc drive as claimed in claim 9, wherein the vibration absorber further comprises:

- a plurality of screws for fixing the vibration absorber to the main body; and
- a plurality of resilient members fastened between the main body and the vibration absorber by the plurality of screws.

Claim 11 (New): The optical disc drive as claimed in claim 10, wherein at least one screw disposed closer to the first side of the main body is screwed more tightly relative to at least one screw disposed farther from the first side.

Claim 12 (New): The optical disc drive as claimed in claim 10, wherein at least one resilient member disposed closer to the first side of the main body has a higher coefficient of elasticity relative to at least one resilient member disposed farther from the first side of the main body.

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Claim 13 (New): The optical disc drive as claimed in claim 10, wherein at least one screw disposed closer to the first center of gravity is screwed more tightly relative to at least one screw disposed farther from the first center of gravity.

Claim 14 (New): The optical disc drive as claimed in claim 10, wherein at least one resilient member disposed closer to the first center of gravity has a higher coefficient of elasticity relative to at least one resilient member disposed farther from the first center of gravity.

Claim 15 (New): The optical disc drive as claimed in claim 10, wherein the first center of gravity and second center of gravity are sufficiently close such that the extra weight due to the balance plate extends the range of frequency absorption between 150-200Hz.

Claim 16 (New): The optical disc drive as claimed in claim 8, wherein the second center of gravity is closer to the first lateral side of the main body than the first center of gravity.

Claim 17 (New): The optical disc drive as claimed in claim 1, wherein the first center of gravity is closer to the center of gravity of the motor taken alone than the center of gravity of the main body taken alone.